NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT MARIYANNAPALYA, MUNIKEMPANNA LAYOUT, BHUVANESHWARINAGRA, DASARAHALLI BALANCE ROADS AND SURROUNDING AREA IN WARD NO.06 BYATARAYANAPURA SUB DIVISION.

Quality Control Reports

First and Part Bill

(Book No.01)

QC ABSTRACT

E OF WORK: Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, aneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura ivision.

	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1

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	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
	RCC(M20)	Compressive Strength(7days and 28days)	23 set /1000-1500 cum	1028.64	46	46
	Cement Concrete Pavement (M30)	Compressive Strength(7days and 28days)	10 set /300-350cum	317	20	20
	GSB	SIEVE ANALYSIS	One Test		1	1
	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Compressive Strength(7days and 28days)	4sets/30-100 cum	37.1	1	1
	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-07-01-04** **Date: 21-06-22**
Project Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	18-06-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	19-06-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.28	_
2	Finess by Air permeablity method (m^2/kg,Min)	274.6	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	29%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-07-01-04** **Date: 18-07-22**
Project Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	18-06-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	19-06-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.0N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-07-01-04** **Date: 21-06-22**
Project Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	18-06-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-06-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	342	342	2.3	97.7	90-100
3	20 mm	5439	5781	38.5	61.5	30-70
4	10 mm	4579	10360	69.1	30.9	10-35
5	4.75 mm	4260	14620	97.5	2.5	0-5
6	Pan	380	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-07-01-04** **Date: 21-06-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.21	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-07-01-04** **Date: 20-06-22**
Project Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	18-06-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-06-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	214	214	4.3	95.7	90-100
3	10 mm	2435	2649	53.0	47.0	25-55
4	4.75 mm	2134	4783	95.7	4.3	0-10
5	Pan	217	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-07-01-04** **Date: 20-06-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.69	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.53	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2022-07-01-04 **Date: 20-06-22**
Project Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	18-06-22
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	18-06-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	133	215	21.5	78.5	60-95	75-100	85-100	95-100
4	1.18 mm	179	394	39.4	60.6	30-70	55-90	75-100	90-100
5	600 micron	186	580	58.0	42.0	15-34	35-59	60-79	80-100
6	300 micron	173	753	75.3	24.7	5-20	8-30	12-40	15-50
7	150 micron	156	909	90.9	9.1	0-10	0-10	0-10	0-15
8	Pan	91	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

ab ID : CP-2022-07-01-04

HYSICAL PROPERTIES

Date: 20-06-22

.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	0.21	–
2	Specific Gravity	1.58	–
3	Material finer than 75 micron(%)	7.7	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST RESULTS OF STEEL

ɔ ID	:	**CP-2022-07-01-04** **Date: 19-06-22**
ɔject Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
ency	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
stomer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
te of Receipt	:	18-06-22
mple Type	:	Sunvik
ference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
e of test:	:	18-06-22

No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

he results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

	:	CP-2022-07-01-04 **Date: 05-07-22**
Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
r's Reference	:	BBMP/EE/BTP/WO/02/2021-22
Receipt	:	01-07-22
Type /Size	:	Precast Cover Slab (100 mm Thick)
to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
est	:	01/07/2022

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

lts obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

)	:	CP-2022-07-01-04 **Date: 05-07-22**
t Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
y	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
ner's Reference	:	BBMP/EE/BTP/WO/02/2021-22
f Receipt	:	01-07-22
e Type /Size	:	Precast Cover Slab (250 mm Thick)
nce to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
f test	:	01/07/2022

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	200.59	250.39	3.145	31596	575.5	18.2	16.9	21.2
Cover Slab-2	200.87	250.45	3.156	31684	590.5	18.6	17.3	21.7
Cover Slab-3	200.94	250.89	3.189	31706	610.5	19.3	17.9	22.4

sults obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

ID	:	CP-2022-07-01-04 **Date: 05-07-22**
ject Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
ncy	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
tomer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
e of Receipt	:	01-07-22
nple Type /Size	:	CC Kerb Stone/ 450*165*400mm
erence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
te of test	:	01/07/2022

l. o.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.35	2.763	7854	149.6	19.0	19.0	23.8
2	B	100.02	165.72	2.856	7856	150.4	19.1	19.1	23.9
3	C	100.05	165.45	2.945	7860	155.5	19.8	19.8	24.7

The results obtained are satisfactory as per standard requirements.

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2022-07-01-04** **Date: 04-07-22**
Project Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	01-07-22
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	01-07-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2022-07-01-04** **Date: 04-07-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	_
2	Specific Gravity	2.51	_
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	_
5	Loose Bulk Density (Kg/litre)	1.73	_

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2022-07-01-04
		Date: 27-06-22
Project Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	23-06-22
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	23-06-22

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	404	199	201	16160	33.044	2044.9	2016.7	Not less than 1800Kg/m^3
2	398	199	203	16078	31.897	1983.9		
3	402	198	203	16158	32.660	2021.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : CP-2022-07-01-04 Date: 27-06-22

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	199	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	203	199	
3	401	202	200	
4	399	199	203	
5	402	201	202	
6	404	201	202	
7	402	202	203	
8	400	200	201	
9	401	201	202	
10	401	201	202	
11	400	200	201	
12	400	201	200	
13	403	202	199	
14	401	201	202	
15	400	203	199	
16	402	199	200	
17	402	201	202	
18	403	199	202	
19	403	201	202	
20	403	200	201	
Average of 20	**401**	**201**	**201**	

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Lab ID : CP-2022-07-01-04 Date: 27-06-22

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	199	79795	377.6	4.7	4.7
2	401	203	81131	380.4	4.7	
3	401	202	81195	374.1	4.6	
4	399	199	79515	379.1	4.8	
5	402	201	80608	375.3	4.7	
6	404	201	81221	379.5	4.7	
7	402	202	81360	379.1	4.7	
8	400	200	80023	380.6	4.8	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

D	:	CP-2022-07-01-04 **Date: 01/07/2022**
ct Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
y	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
mer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
of Receipt	:	27-06-22
mer ID	:	Drain Bottom Raft - Joseph House Road (W0884)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 7 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	01/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	01/07/2022	150.68 X 151.00 X 150.89	22753	8.239	429.7	18.9	18.5
Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	01/07/2022	150.75 X 150.34 X 150.28	22664	8.442	418.2	18.5	
Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	01/07/2022	149.25 X 149.42 X 149.30	22301	8.221	404.6	18.1	

results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

ID : **CP-2022-07-01-04** **Date: 22/07/2022**

ct Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06

cy : Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

omer's Reference : BBMP/EE/BTP/WO/02/2021-22

of Receipt : 27-06-22

omer ID : Drain Bottom Raft - Joseph House Road (W0884)

le Type /Size : 150X150X150 mm

le grade/Age : M20 / 28 Days Compressive Strength

ence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

of test : 22/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	22/07/2022	149.83 X 149.09 X 150.62	22338	8.763	515.2	23.1	22.9
Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	22/07/2022	149.52 X 151.21 X 151.60	22609	8.806	500.6	22.1	
Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	22/07/2022	149.43 X 151.62 X 150.35	22656	8.816	532.9	23.5	

esults obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

D	:	**CP-2022-07-01-04** **Date: 01/07/2022**
t Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
y	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
mer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
f Receipt	:	27-06-22
mer ID	:	Drain Bottom Raft - Joseph House Road (W0884)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 7 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
f test	:	01/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	01/07/2022	150.98 X 151.85 X 151.76	22926	8.872	429.3	18.7	18.7
Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	01/07/2022	149.16 X 150.10 X 151.23	22390	8.937	422.0	18.8	
Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	01/07/2022	151.31 X 149.41 X 150.75	22607	8.743	416.0	18.4	

esults obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2022-07-01-04

Date: 22/07/2022

ect Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06

cy : Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

omer's Reference : BBMP/EE/BTP/WO/02/2021-22

of Receipt : 27-06-22

omer ID : Drain Bottom Raft - Joseph House Road (W0884)

ple Type /Size : 150X150X150 mm

ple grade/Age : M20 / 28 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

of test : 22/07/2022

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	22/07/2022	151.93 X 149.79 X 151.15	22757	8.135	546.1	24.0	23.2
	Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	22/07/2022	149.05 X 149.83 X 151.99	22332	8.152	506.8	22.7	
	Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	22/07/2022	151.18 X 150.41 X 150.69	22739	9.008	524.0	23.0	

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

b ID : CP-2022-07-01-04

Date: 01/07/2022

oject Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

ency : Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

stomer's Reference : BBMP/EE/BTP/WO/02/2021-22

te of Receipt : 27-06-22

stomer ID : Drain Bottom Raft - Joseph House Road (W0884)

mple Type /Size : 150X150X150 mm

mple grade/Age : M20 / 7 Days Compressive Strength

ference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

te of test : 01/07/2022

l. o.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	01/07/2022	149.50 X 151.28 X 151.32	22615	8.449	411.7	18.2	18.6
	Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	01/07/2022	151.36 X 150.05 X 149.00	22712	8.264	431.1	19.0	
	Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	01/07/2022	150.58 X 149.80 X 150.17	22556	8.114	418.0	18.5	

he results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-07-01-04 **Date: 22/07/2022**
Project Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06
Agency	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
Customer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	27-06-22
Customer ID	:	Drain Bottom Raft - Joseph House Road (W0884)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	22/07/2022	149.54 X 149.77 X 151.01	22397	8.239	536.0	23.9	23.4
2	Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	22/07/2022	150.04 X 150.22 X 150.76	22539	8.348	514.1	22.8	
3	Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	22/07/2022	151.00 X 149.64 X 151.53	22596	8.491	530.5	23.5	

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ,

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

b ID	:	CP-2022-07-01-04 **Date: 01/07/2022**
oject Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
ency	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
stomer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
te of Receipt	:	27-06-22
stomer ID	:	Drain Bottom Raft - Joseph House Road (W0884)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
te of test	:	01/07/2022

.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	01/07/2022	150.28 X 149.97 X 149.79	22538	8.381	416.1	18.5	18.3
	Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	01/07/2022	150.38 X 150.02 X 150.55	22560	8.460	415.2	18.4	
	Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	01/07/2022	150.48 X 151.06 X 149.28	22731	8.518	409.7	18.0	

he results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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Quality Manager

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

b ID : CP-2022-07-01-04 Date: 22/07/2022

oject Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06

ency : Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

stomer's Reference : BBMP/EE/BTP/WO/02/2021-22

te of Receipt : 27-06-22

stomer ID : Drain Bottom Raft - Joseph House Road (W0884)

mple Type /Size : 150X150X150 mm

mple grade/Age : M20 / 28 Days Compressive Strength

ference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

te of test : 22/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	22/07/2022	150.22 X 150.58 X 150.36	22621	8.390	539.6	23.9	23.3
2	Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	22/07/2022	149.70 X 152.00 X 150.74	22754	9.049	501.6	22.0	
3	Drain Bottom Raft - Joseph House Road (W0884)	M20	24/06/2022	22/07/2022	149.21 X 150.68 X 151.58	22483	8.946	538.1	23.9	

The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/07/2022

b ID	:	CP-2022-07-01-04
oject Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
gency	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
stomer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
te of Receipt	:	29-06-22
stomer ID	:	Drain Bottom Raft - 1st Main Road (W1307)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
te of test	:	04/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - 1st Main Road (W1307)	M20	27/06/2022	04/07/2022	149.63 X 150.63 X 151.39	22539	8.970	427.6	19.0	18.5
2	Drain Bottom Raft - 1st Main Road (W1307)	M20	27/06/2022	04/07/2022	150.29 X 150.38 X 150.51	22600	9.012	409.1	18.1	
3	Drain Bottom Raft - 1st Main Road (W1307)	M20	27/06/2022	04/07/2022	149.34 X 149.58 X 150.68	22338	8.174	410.5	18.4	

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಧಿಯಂತರು
ಬಿಬಿಎಂಪಿ ರಾಜರಾಜೇಶ್ವರಿನಗರ ಉಪ ವಿಭಾಗ

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧಿಯಂತರು
ರಾಜರಾಜೇಶ್ವರಿನಗರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-56

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

D	:	CP-2022-07-01-04
ct Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06
cy	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
omer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
of Receipt	:	29-06-22
omer ID	:	Drain Bottom Raft - 1st Main Road (W1307)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 28 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	25/07/2022

Date: 25/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft - 1st Main Road (W1307)	M20	27/06/2022	25/07/2022	149.44 X 151.87 X 149.65	22695	8.337	524.2	23.1	22.9
Drain Bottom Raft - 1st Main Road (W1307)	M20	27/06/2022	25/07/2022	150.29 X 149.42 X 149.76	22455	8.239	497.4	22.2	
Drain Bottom Raft - 1st Main Road (W1307)	M20	27/06/2022	25/07/2022	151.36 X 150.65 X 151.61	22802	8.398	536.4	23.5	

: results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ದಾಸರಹಳ್ಳಿ ವಲಯ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ದಾಸರಹಳ್ಳಿ ವಲಯ ಉಪ ವಿಭಾಗ
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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

D : CP-2022-07-01-04 **Date: 04/07/2022**

et Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

cy : Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

omer's Reference : BBMP/EE/BTP/WO/02/2021-22

of Receipt : 29-06-22

omer ID : Drain Bottom Raft - 1st Main Road (W1307)

ple Type /Size : 150X150X150 mm

ple grade/Age : M20 / 7 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

of test : 04/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft - 1st Main Road (W1307)	M20	27/06/2022	04/07/2022	150.52 X 151.66 X 149.48	22828	8.369	416.9	18.3	18.4
Drain Bottom Raft - 1st Main Road (W1307)	M20	27/06/2022	04/07/2022	150.17 X 151.70 X 151.67	22782	8.583	429.0	18.8	
Drain Bottom Raft - 1st Main Road (W1307)	M20	27/06/2022	04/07/2022	149.87 X 151.23 X 150.84	22664	9.031	413.7	18.3	

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಕಾರ್ಯಪಾಲಕ ಕಾರ್ಯ ಮಿಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು

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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-04

Date: 25/07/2022

ame : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06

: Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

r's Reference : BBMP/EE/BTP/WO/02/2021-22

Receipt : 29-06-22

er ID : Drain Bottom Raft - 1st Main Road (W1307)

Type /Size : 150X150X150 mm

grade/Age : M20 / 28 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

test : 25/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Drain Bottom Raft - 1st Main Road (W1307)	M20	27/06/2022	25/07/2022	149.71 X 150.29 X 149.95	22500	8.377	532.7	23.7	23.1
Drain Bottom Raft - 1st Main Road (W1307)	M20	27/06/2022	25/07/2022	150.84 X 151.53 X 151.17	22857	8.447	505.7	22.1	
Drain Bottom Raft - 1st Main Road (W1307)	M20	27/06/2022	25/07/2022	150.77 X 149.37 X 149.93	22520	8.541	530.0	23.5	

esults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/07/2022

D	:	CP-2022-07-01-04
ct Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
cy	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
omer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
of Receipt	:	01-07-22
omer ID	:	Drain Bottom Raft- Moto Work Oppo. (W1299)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	06/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft-Moto Work Oppo. (W1299)	M20	29/06/2022	06/07/2022	149.81 X 150.91 X 151.70	22608	9.018	417.5	18.5	18.7
Drain Bottom Raft-Moto Work Oppo. (W1299)	M20	29/06/2022	06/07/2022	151.82 X 150.75 X 149.15	22887	8.399	429.1	18.7	
Drain Bottom Raft-Moto Work Oppo. (W1299)	M20	29/06/2022	06/07/2022	149.14 X 151.41 X 150.66	22581	8.877	426.5	18.9	

e results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

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****End of Report****

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

) ID	:	CP-2022-07-01-04 **Date: 27/07/2022**
ject Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06
ncy	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
stomer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
e of Receipt	:	01-07-22
stomer ID	:	Drain Bottom Raft- Moto Work Oppo. (W1299)
nple Type /Size	:	150X150X150 mm
nple grade/Age	:	M20 / 28 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
te of test	:	27/07/2022

).	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Drain Bottom Raft-Moto Work Oppo. (W1299)	M20	29/06/2022	27/07/2022	150.33 X 150.74 X 151.46	22661	8.616	534.7	23.6	23.2
	Drain Bottom Raft-Moto Work Oppo. (W1299)	M20	29/06/2022	27/07/2022	151.13 X 149.30 X 150.28	22564	8.776	517.3	22.9	
	Drain Bottom Raft-Moto Work Oppo. (W1299)	M20	29/06/2022	27/07/2022	149.52 X 149.24 X 149.05	22315	8.301	514.7	23.1	

he results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

CIVIL Pro SANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

****End of Report****

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/07/2022

ID	:	CP-2022-07-01-04
ject Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
ncy	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapuppa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
tomer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
e of Receipt	:	01-07-22
tomer ID	:	Drain Bottom Raft- Moto Work Oppo. (W1299)
nple Type /Size	:	150X150X150 mm
nple grade/Age	:	M20 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
te of test	:	06/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft-Moto Work Oppo. (W1299)	M20	29/06/2022	06/07/2022	150.83 X 149.31 X 151.94	22521	8.175	415.3	18.4	18.4
Drain Bottom Raft-Moto Work Oppo. (W1299)	M20	29/06/2022	06/07/2022	149.68 X 151.53 X 149.59	22682	9.063	424.3	18.7	
Drain Bottom Raft-Moto Work Oppo. (W1299)	M20	29/06/2022	06/07/2022	151.79 X 150.81 X 150.63	22891	8.519	413.4	18.1	

he results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿಬಿಎಂಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-26

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/07/2022

ID	:	CP-2022-07-01-04
ect Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06
ıcy	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
omer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
of Receipt	:	01-07-22
omer ID	:	Drain Bottom Raft- Moto Work Oppo. (W1299)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	27/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft-Moto Work Oppo. (W1299)	M20	29/06/2022	27/07/2022	150.91 X 151.52 X 149.84	22866	8.488	546.1	23.9	23.3
Drain Bottom Raft-Moto Work Oppo. (W1299)	M20	29/06/2022	27/07/2022	149.58 X 151.19 X 151.39	22615	9.095	501.7	22.2	
Drain Bottom Raft-Moto Work Oppo. (W1299)	M20	29/06/2022	27/07/2022	151.08 X 151.43 X 149.05	22877	8.310	546.1	23.9	

Results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

b ID	:	CP-2022-07-01-04 **Date: 06/07/2022**
oject Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
ency	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
stomer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
te of Receipt	:	01-07-22
stomer ID	:	Drain Bottom Raft- Moto Work Oppo. (W1299)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
te of test	:	06/07/2022

il. o.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft-Moto Work Oppo. (W1299)	M20	29/06/2022	06/07/2022	151.57 X 150.11 X 149.74	22753	9.056	413.4	18.2	18.5
2	Drain Bottom Raft-Moto Work Oppo. (W1299)	M20	29/06/2022	06/07/2022	149.01 X 149.31 X 150.82	22248	8.592	413.1	18.6	
3	Drain Bottom Raft-Moto Work Oppo. (W1299)	M20	29/06/2022	06/07/2022	149.59 X 151.12 X 150.33	22607	8.364	421.7	18.7	

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ,

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು

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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/07/2022

b ID	:	CP-2022-07-01-04
oject Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06
gency	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
stomer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
te of Receipt	:	01-07-22
stomer ID	:	Drain Bottom Raft- Moto Work Oppo. (W1299)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 28 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
te of test	:	27/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft-Moto Work Oppo. (W1299)	M20	29/06/2022	27/07/2022	149.01 X 150.64 X 149.39	22447	8.481	529.9	23.6	23.3
2	Drain Bottom Raft-Moto Work Oppo. (W1299)	M20	29/06/2022	27/07/2022	151.45 X 150.34 X 149.93	22768	8.981	511.5	22.5	
3	Drain Bottom Raft-Moto Work Oppo. (W1299)	M20	29/06/2022	27/07/2022	151.84 X 149.43 X 150.09	22689	8.572	542.1	23.9	

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

CIVIL Pro BANGALORE

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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2022-07-01-04 **Date: 04/07/2022**
ect Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
ncy	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
omer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
of Receipt	:	29-06-22
omer ID	:	Drain Side Wall - Joseph House Road (W0884)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	04/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	04/07/2022	149.51 X 149.85 X 149.45	22404	8.317	405.7	18.1	18.5
Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	04/07/2022	150.74 X 151.95 X 149.17	22905	8.592	422.4	18.4	
Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	04/07/2022	151.72 X 149.75 X 150.56	22720	8.823	429.6	18.9	

: results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2022-07-01-04 **Date: 25/07/2022**

ject Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06

ncy : Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

tomer's Reference : BBMP/EE/BTP/WO/02/2021-22

e of Receipt : 29-06-22

tomer ID : Drain Side Wall - Joseph House Road (W0884)

ıple Type /Size : 150X150X150 mm

ıple grade/Age : M20 / 28 Days Compressive Strength

erence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

e of test : 25/07/2022

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	25/07/2022	149.06 X 149.16 X 151.85	22234	8.615	517.1	23.3	23.1
	Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	25/07/2022	151.25 X 149.91 X 151.52	22674	8.564	510.0	22.5	
	Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	25/07/2022	150.17 X 150.47 X 150.09	22596	8.899	529.3	23.4	

e results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು

CIVIL Pro Sl..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2022-07-01-04 **Date: 04/07/2022**

ject Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

ncy : Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

tomer's Reference : BBMP/EE/BTP/WO/02/2021-22

e of Receipt : 29-06-22

tomer ID : Drain Side Wall - Joseph House Road (W0884)

ple Type /Size : 150X150X150 mm

ple grade/Age : M20 / 7 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

e of test : 04/07/2022

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	04/07/2022	151.09 X 149.08 X 150.94	22524	8.516	423.4	18.8	18.5
	Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	04/07/2022	150.56 X 151.99 X 149.54	22884	9.004	425.3	18.6	
	Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	04/07/2022	149.52 X 151.01 X 151.19	22579	8.566	409.7	18.1	

e results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯ...
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ-24

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****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/07/2022

D	:	CP-2022-07-01-04
t Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06
y	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
mer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
f Receipt	:	29-06-22
mer ID	:	Drain Side Wall - Joseph House Road (W0884)
e Type /Size	:	150X150X150 mm
e grade/Age	:	M20 / 28 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
f test	:	25/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	25/07/2022	150.58 X 150.41 X 150.79	22648	8.368	536.7	23.7	23.3
Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	25/07/2022	150.69 X 150.98 X 149.31	22751	8.548	506.1	22.2	
Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	25/07/2022	149.45 X 149.23 X 149.06	22304	8.135	533.9	23.9	

esults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ದಾಸರಹಳ್ಳಿಯನಪುರ ಉಪ ವಿಭಾಗ

FOR CIVIL Pro.

R'KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ದಾಸರಹಳ್ಳಿಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/07/2022

b ID	:	CP-2022-07-01-04
ject Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
ncy	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
stomer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
te of Receipt	:	29-06-22
stomer ID	:	Drain Side Wall - Joseph House Road (W0884)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
te of test	:	04/07/2022

S. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	04/07/2022	149.77 X 150.49 X 151.15	22539	8.410	410.2	18.2	18.4
2	Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	04/07/2022	151.05 X 151.27 X 151.94	22848	9.058	412.9	18.1	
3	Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	04/07/2022	149.55 X 151.16 X 150.59	22605	8.325	426.6	18.9	

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧಿಕಾರಿಯವರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧಿಯಂತರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

CIVIL PRO Signature Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

D	:	CP-2022-07-01-04 **Date: 25/07/2022**
ct Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06
cy	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
omer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
of Receipt	:	29-06-22
omer ID	:	Drain Side Wall - Joseph House Road (W0884)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 28 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	25/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	25/07/2022	150.94 X 151.10 X 149.27	22807	8.706	528.0	23.1	23.0
Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	25/07/2022	149.03 X 149.54 X 149.33	22285	8.750	499.3	22.4	
Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	25/07/2022	150.31 X 151.81 X 151.23	22819	8.875	536.3	23.5	

: results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಧಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು

CIVIL Pro BANGALORE

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Authorized Signatory
Quality Manager

****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2022-07-01-04 **Date: 04/07/2022**
ect Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
ıcy	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
omer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
of Receipt	:	29-06-22
omer ID	:	Drain Side Wall - Joseph House Road (W0884)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	04/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	04/07/2022	150.43 X 151.03 X 149.58	22721	8.816	415.9	18.3	18.4
Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	04/07/2022	149.63 X 149.12 X 149.35	22312	8.152	415.4	18.6	
Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	04/07/2022	151.85 X 151.31 X 149.76	22976	8.718	419.1	18.2	

e results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/07/2022

D	:	CP-2022-07-01-04
ct Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06
cy	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
mer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
of Receipt	:	29-06-22
mer ID	:	Drain Side Wall - Joseph House Road (W0884)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	25/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	25/07/2022	149.35 X 150.53 X 149.83	22481	8.974	526.7	23.4	23.2
Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	25/07/2022	150.12 X 149.74 X 151.45	22479	8.548	512.5	22.8	
Drain Side Wall - Joseph House Road (W0884)	M20	27/06/2022	25/07/2022	149.72 X 150.61 X 149.44	22550	8.723	529.2	23.5	

results obtained are satisfactory as per standard requirements.

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-04 **Date: 06/07/2022**

Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.

: Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

er's Reference : BBMP/EE/BTP/WO/02/2021-22

Receipt : 01-07-22

er ID : Drain Side Wall - 1st Main Road (W1307)

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

test : 06/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
rain Side Wall - 1st Main Road (W1307)	M20	29/06/2022	06/07/2022	150.16 X 150.59 X 150.22	22613	8.762	414.4	18.3	18.3
rain Side Wall - 1st Main Road (W1307)	M20	29/06/2022	06/07/2022	149.05 X 150.46 X 151.75	22425	8.617	415.1	18.5	
rain Side Wall - 1st Main Road (W1307)	M20	29/06/2022	06/07/2022	150.22 X 150.22 X 151.56	22566	8.346	406.9	18.0	

ults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯ[illegible]
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2022-07-01-04 **Date: 27/07/2022**

ct Name : Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06

cy : Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045

omer's Reference : BBMP/EE/BTP/WO/02/2021-22

of Receipt : 01-07-22

omer ID : Drain Side Wall - 1st Main Road (W1307)

le Type /Size : 150X150X150 mm

le grade/Age : M20 / 28 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

of test : 27/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall - 1st Main Road (W1307)	M20	29/06/2022	27/07/2022	150.48 X 150.44 X 151.82	22639	8.782	522.6	23.1	23.1
Drain Side Wall - 1st Main Road (W1307)	M20	29/06/2022	27/07/2022	149.27 X 150.66 X 150.29	22490	8.295	506.1	22.5	
Drain Side Wall - 1st Main Road (W1307)	M20	29/06/2022	27/07/2022	149.36 X 150.23 X 149.70	22439	9.028	529.3	23.6	

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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Authorized Signatory
Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

)	:	CP-2022-07-01-04 **Date: 06/07/2022**
t Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division.
	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
ner's Reference	:	BBMP/EE/BTP/WO/02/2021-22
Receipt	:	01-07-22
ner ID	:	Drain Side Wall - 1st Main Road (W1307)
Type /Size	:	150X150X150 mm
grade/Age	:	M20 / 7 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
test	:	06/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
rain Side Wall - 1st Main Road (W1307)	M20	29/06/2022	06/07/2022	149.01 X 151.39 X 149.01	22559	8.261	414.0	18.4	18.6
rain Side Wall - 1st Main Road (W1307)	M20	29/06/2022	06/07/2022	150.42 X 151.45 X 151.31	22781	8.286	424.1	18.6	
rain Side Wall - 1st Main Road (W1307)	M20	29/06/2022	06/07/2022	150.33 X 151.36 X 149.18	22754	8.845	429.7	18.9	

ults obtained are satisfactory as per standard requirements.

ನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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Authorized Signatory
Quality Manager

ನಿರ್ವಾಹಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

D	:	CP-2022-07-01-04 **Date: 27/07/2022**
ct Name	:	Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No. 06
cy	:	Sri. Gopi Reddy, No:03, 1st Cross, 1st Main, Ramachandrapappa Layout, Veeranapalya, Arabic College Post, Bangalore-560045
mer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
of Receipt	:	01-07-22
mer ID	:	Drain Side Wall - 1st Main Road (W1307)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 28 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	27/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall - 1st Main Road (W1307)	M20	29/06/2022	27/07/2022	150.94 X 150.19 X 149.95	22670	8.516	525.2	23.2	22.9
Drain Side Wall - 1st Main Road (W1307)	M20	29/06/2022	27/07/2022	150.64 X 149.72 X 149.68	22553	8.821	507.3	22.5	
Drain Side Wall - 1st Main Road (W1307)	M20	29/06/2022	27/07/2022	149.94 X 151.04 X 149.01	22647	8.931	521.5	23.0	

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

FOR CIVIL Pro.

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Quality Manager

****End of Report****

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